

ZoneSelect® ComboFrac Openhole Packer

Provides both mechanical and swelling-elastomer isolation when high-pressure differentials are required

Applications

- Multizone openhole completions
- High-pressure stimulations
- Horizontal or vertical wells
- Completion of underbalanced wells or wells with losses

Features and Benefits

- The ComboFrac packer has a 5-ft (1.5-m) total element length for an effective seal over the irregular openhole section.
- The packer has a compression-set element for instant isolation and pressure integrity. This feature, along with the compliant seal of the swellable elastomer, enables an early pressure application across the packer.
- The packer withstands pressures up to 10,000 psi (68.9 MPa) during stimulation treatments for maximum effectiveness.
- An interlocking feature secures the setting device during deployment to prevent the packer from setting prematurely.

Tool Description

The Weatherford ComboFrac openhole packer provides both mechanical and swelling-elastomer isolation when high-pressure differentials are required. The packer incorporates a conventional compression-set element and a conforming swellable elastomer. The design combines the instant pack-off capabilities of a hydraulic-set element with the pressure support of a longer, more compliant swellable element. The swellable element can be supplied in a water-, oil-, or hybrid-swelling elastomer to meet individual well requirements.

The ComboFrac packer is part of the Weatherford ZoneSelect fracturing system, which includes an extensive portfolio of openhole isolation packers, selective stimulation sleeves, and ancillary equipment. Together, these technologies optimize stimulation performance in various wellbore environments.



The ComboFrac packer has a 5-ft (1.5-m) total element length for effective sealing, a high-pressure design for maximum stimulation, an interlocking feature to avoid premature setting, and a compression-set element for instant isolation and pressure integrity.



ZoneSelect® ComboFrac Openhole Packer

Specifications

Mandrel size	4-1/2 in. (114.3 mm)	5-1/2 in. (139.7 mm)
Mandrel weight	13.5 in. (20.1 mm)	20 in. (29.8 mm)
Maximum differential pressure rating	10,000 psi (68.90 MPa)	
Setting actuation pressure	4,000 psi (27.60 MPa)	
Activation fluid	Brine, seawater for water Oil-based mud, invert, diesel for oil Oil or water emulsions for hybrid	
Maximum temperature rating	270°F (132°C) for water and hybrid 340°F (171°C) for oil	
Material specifications	P-110	
Tensile rating	220,000 lbf (98,000 daN)	535,500 lbf (219,068 daN)
Burst rating	10,600 psi (73.10 MPa)	13,800 psi (95.10 MPa)
Collapse rating	10,100 psi (69.60 MPa)	13,000 psi (89.60 MPa)
Maximum OD	5.75 in. (146.10 mm)	8.155 in. (207 mm)
Minimum ID	3.875 in. (98.40 mm)	4.758 in. (120.80 mm)
Overall length with LTC threads	120 in. (3,048 mm)	129.33 in. (3,284.98 mm)



*ZoneSelect is a registered trademark of Weatherford in the US.